

### ABSTRACT

A system for removing osteal cement and prosthetic joint components in connection with a prosthetic joint revision includes a controller connected to and controlling operation of a transducer, such as a surgical saw or drill. A tool mounted on the transducer is adapted for engaging the prosthetic joint cement mantel and melting an engagement portion of same. The cement in the engagement portion is resolidified with the tool tip embedded therein. The tool thus bonds to the cement mantel, and is used for vibrating, softening and breaking up same when operation of the transducer resumes. An osteal cement and prosthetic device removal method includes the steps of melting an engagement portion of the osteal cement mantel, bonding a transducer-mounted tool to the cement mantel by resolidifying the cement engagement portion and reactivating the transducer for vibrating, softening and breaking up the cement mantel whereby it can be removed from the patient.